

```
1 #Calculate vehicle charging costs
    startMiles = 0
    noOfStations = 0
4
   currentMiles = 0
   kwRating = 0
    milesTravelled = [0]*10
    journeyStage = [0]*10
    totalJourneyCost = 0.0
9
    totalMiles = 0
10
11
    #Get journey details
    startMiles = int(input("Enter mileage at start of journey: "))
12
13
14
    #Get valid number of stations
    noOfStations = int(input("How many charging stations are on your journey: "))
15
16 * while noOfStations < 0 or noOfStations > 10:
17
        noOfStations = int(input("Invalid - can only record 10 stations max. Re-enter: "))
18
19 #Calculate and store code of each stage of journey
20 * for index in range(noOfStations):
21
        #Get current mileage at each station
22
        currentMiles = int(input("Enter miles at station " + str(index + 1) + ": "))
23
24
        #Get valid KW for each station
25
        kwRating = int(input("Enter KW Rating for each station 7, 22 or 50: "))
26 -
        while kwRating != 7 and kwRating != 22 and kwRating != 50:
27
             kwRating = int(input("Invalid - Please Re-enter 7, 22 or 50: "))
28
29
        #Set price per mile depending on kwRating
30 =
        if kwRating ==7:
31
             pricePerMile = 0
32 -
        elif kwRating == 22:
33
             pricePerMile = 0.005
34 ▼
        else:
35
             pricePerMile = 0.01
36
37
        milesTravelled[index] = currentMiles - startMiles
38
        startMiles = currentMiles
39
        journeyStage[index] = pricePerMile * milesTravelled[index]
40
41
    #Display total miles, journey cost
42 * for counter in range(noOfStations):
        print("Journey Stage Cost "+ str(counter +1)+": " + str(journeyStage[counter]))
43
44
45
        #Running total for total journey cost and total miles
46
        totalJourneyCost +=journeyStage[counter]
47
        totalJourneyCost = round(totalJourneyCost,2)
48
        totalMiles = totalMiles + milesTravelled[counter]
49
50
    #Display journey details
    print("Total Journey Cost: " + str(totalJourneyCost))
    print ("Total Miles Travelled: " + str(totalMiles))
```

